



# TB Surveillance Overview

Miranda Fanning  
TB/HIV/STD Epidemiology and Surveillance  
Group Manager



# Overview

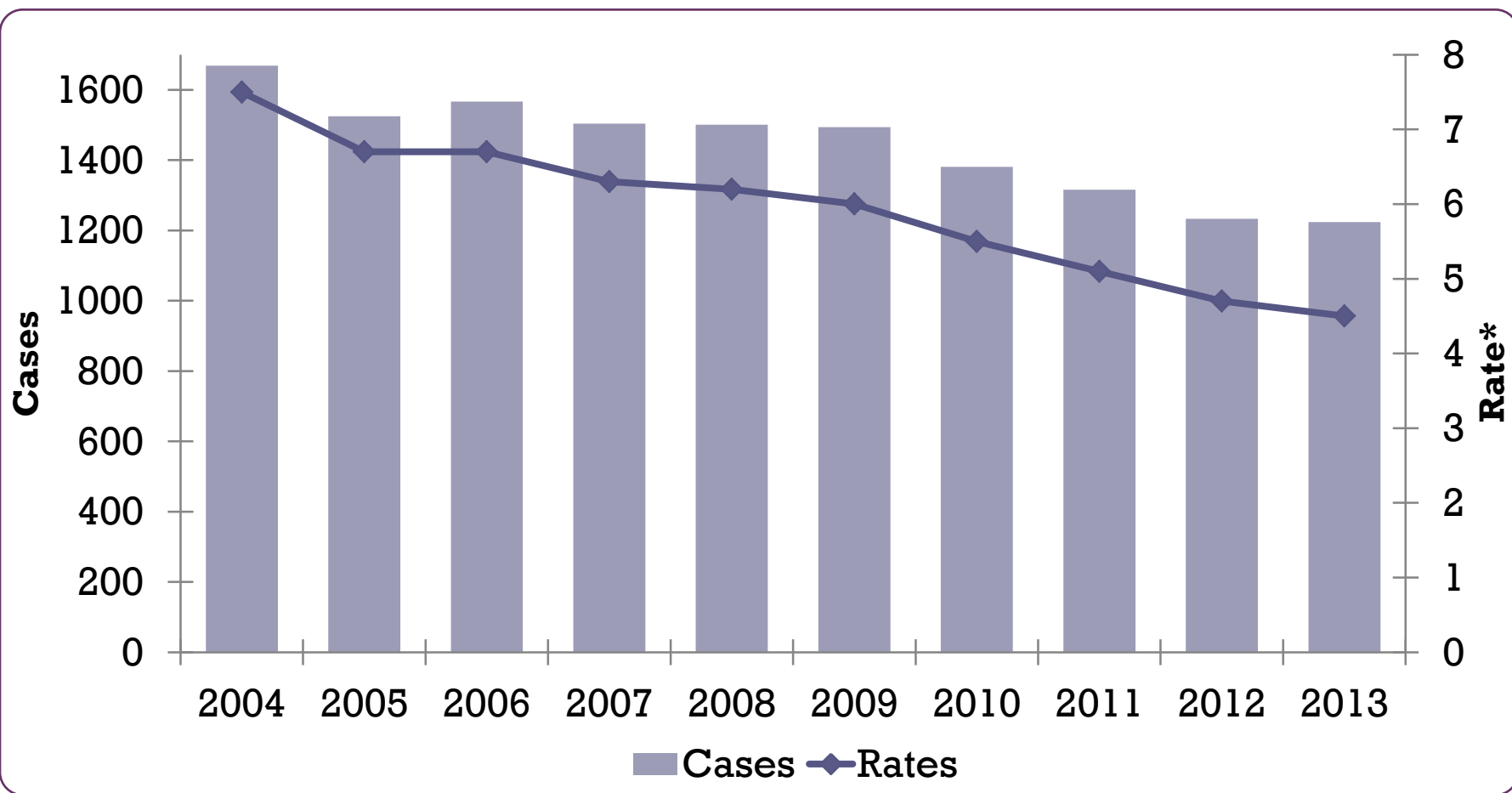


- TB in Texas
- Case Data Collection and Reporting
- Contact Reporting

# TB Cases and Incidence Rates\*

Texas, 2004-2013

Provisional

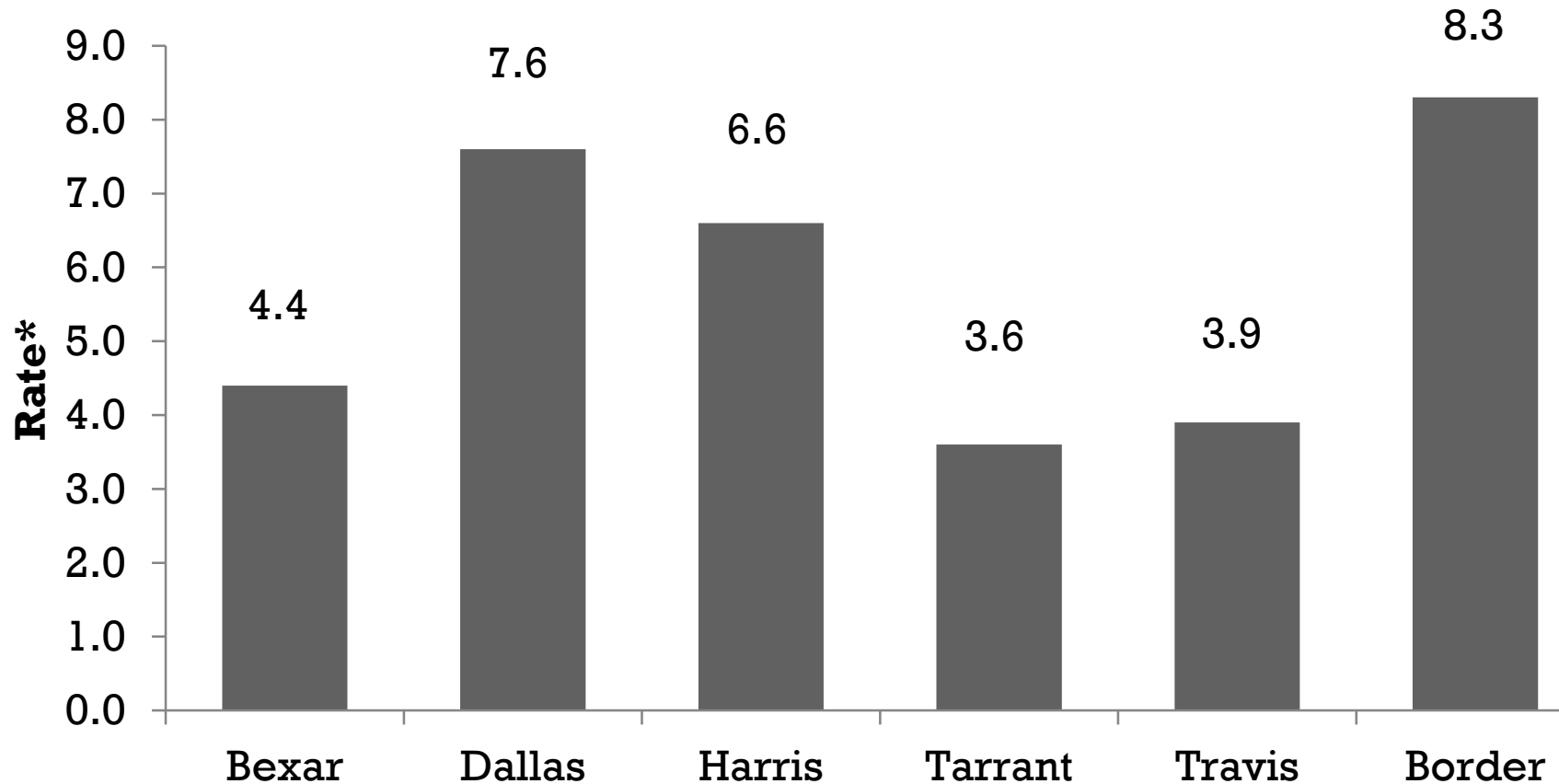


\*Cases per 100,000 population. Population estimates from EHDP VitalNet, current as of 3/21/2014

# TB Incidence Rate for Selected Geographic Areas

## Texas, 2013

### Provisional

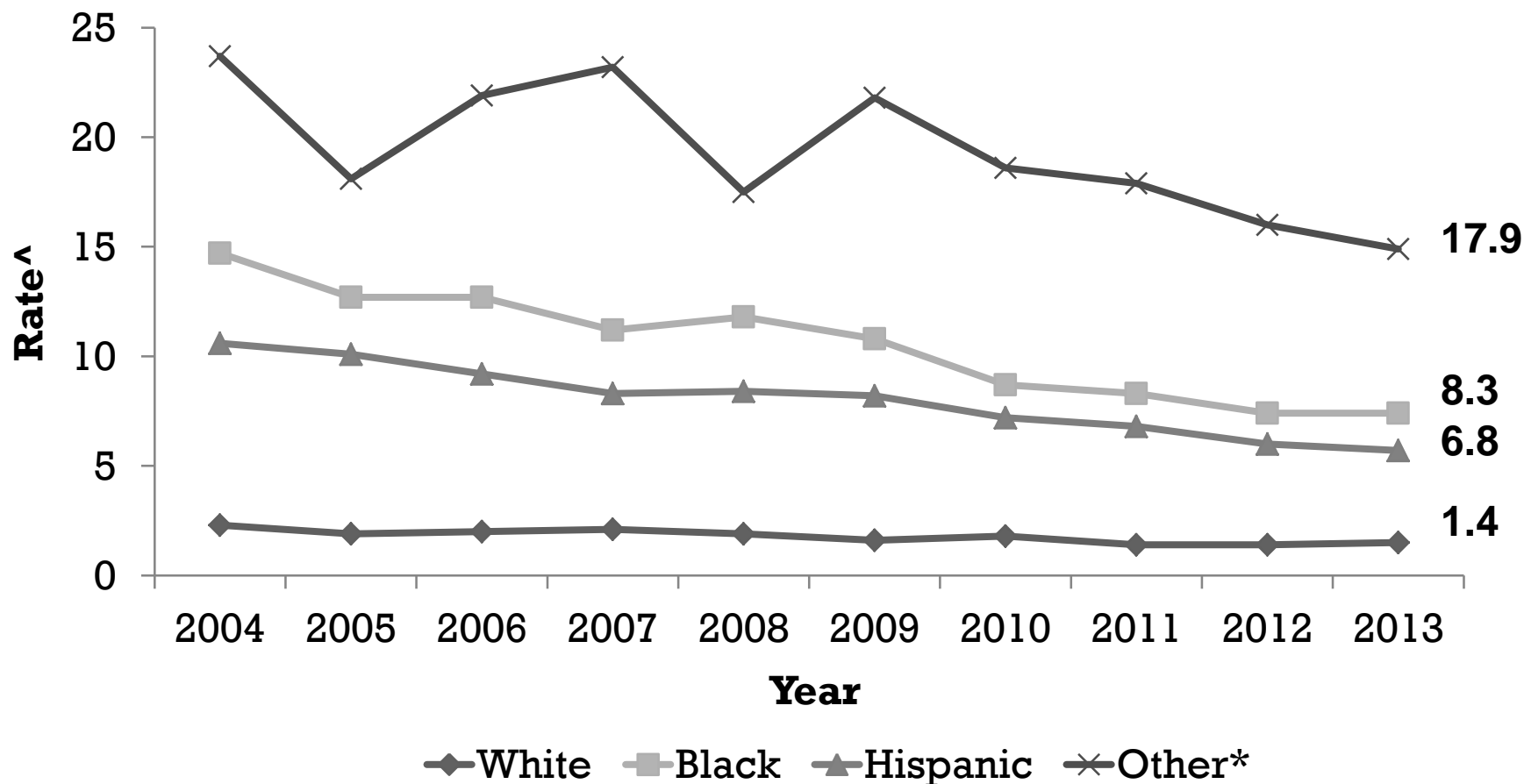


\*Cases per 100,000 population. Population estimates from EHDP VitalNet, current as of 3/21/2014

# TB Incidence Rates by Race/Ethnic Group

## Texas, 2004-2013

### Provisional



\*Other consists of Asians, Pacific Islanders, Native Hawaiians, American Indians, Alaskan Natives, Multi-Racial

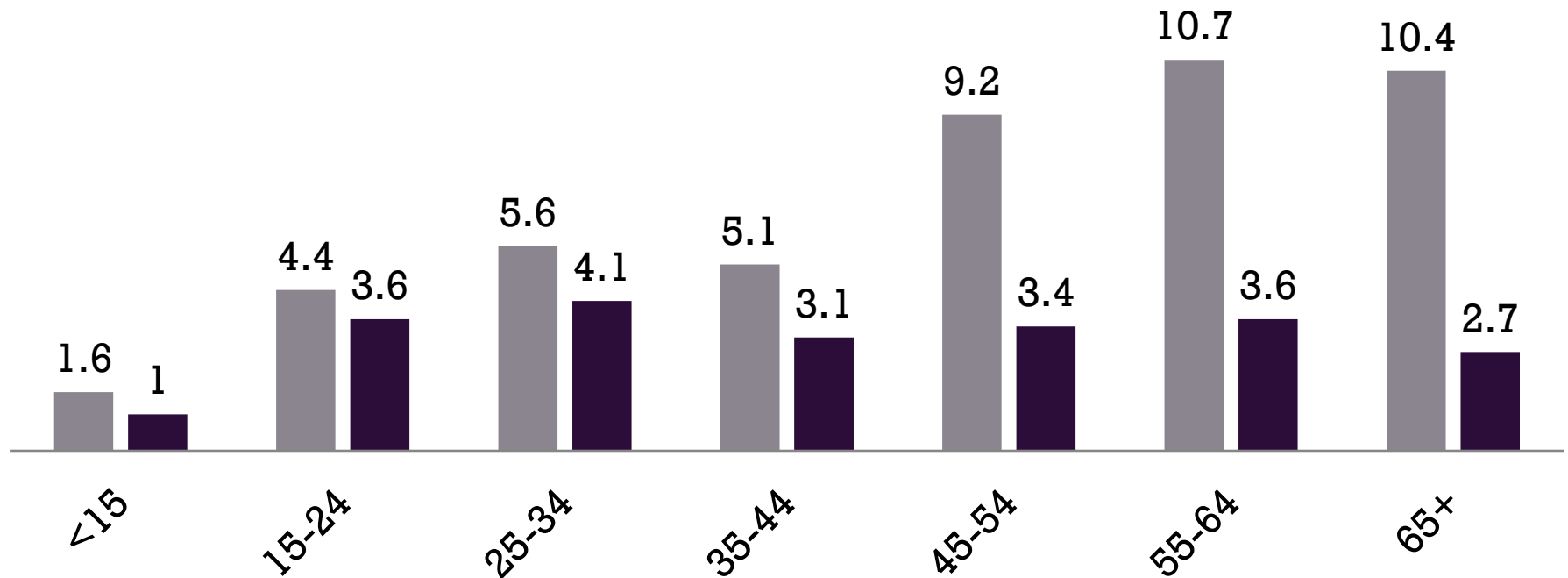
^Cases per 100,000 population. Population estimates from EHDP VitalNet, current as of 3/21/2014

# TB Incidence Rate by Age and Gender

Texas, 2013

Provisional

■ Male ■ Female



65% Male, 35% Female

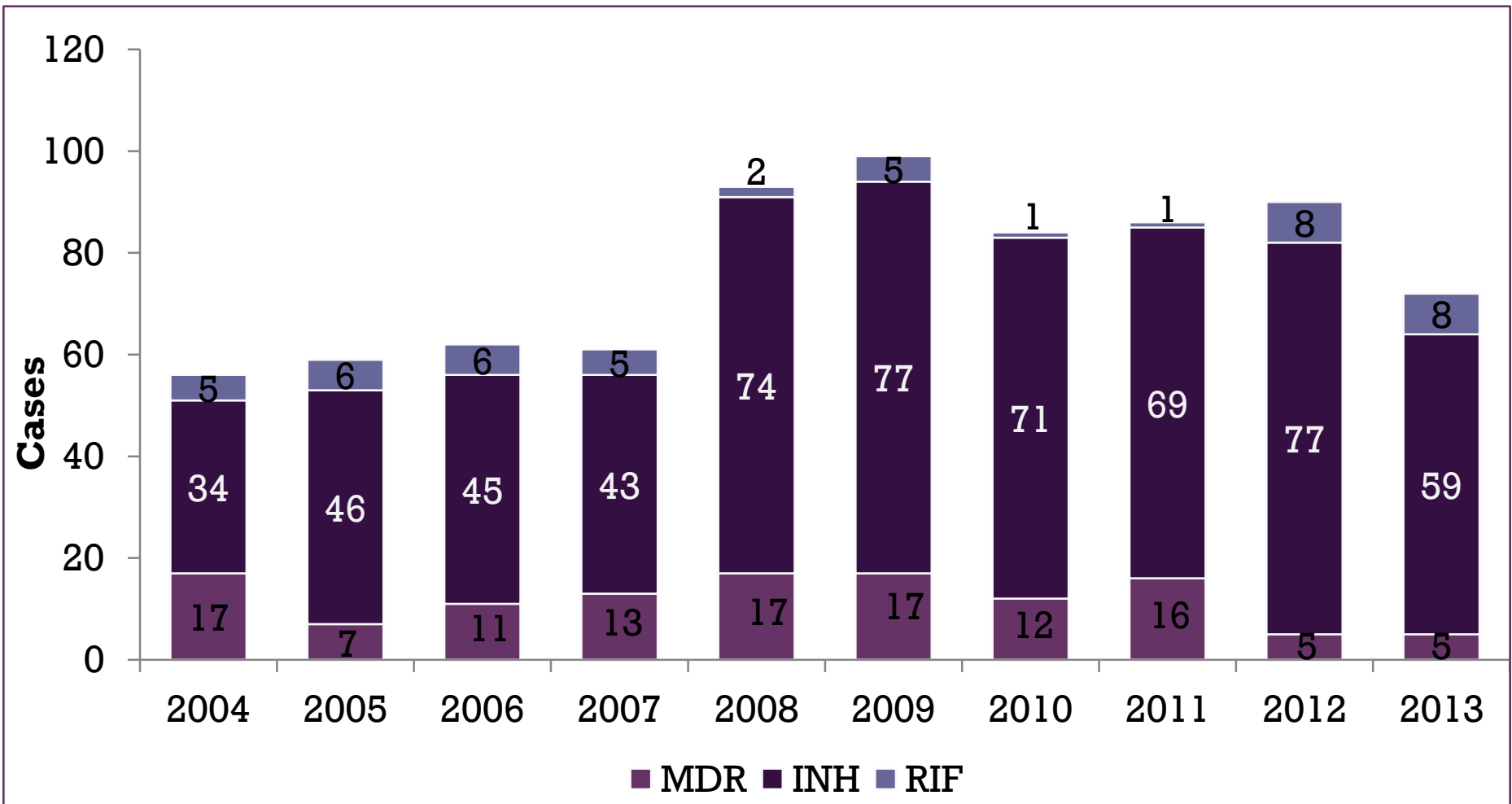
Incidence rate for Males = 5.9, Females = 1.6

\*Cases per 100,000 population. Population estimates from EHDP VitalNet, current as of 3/14/2014

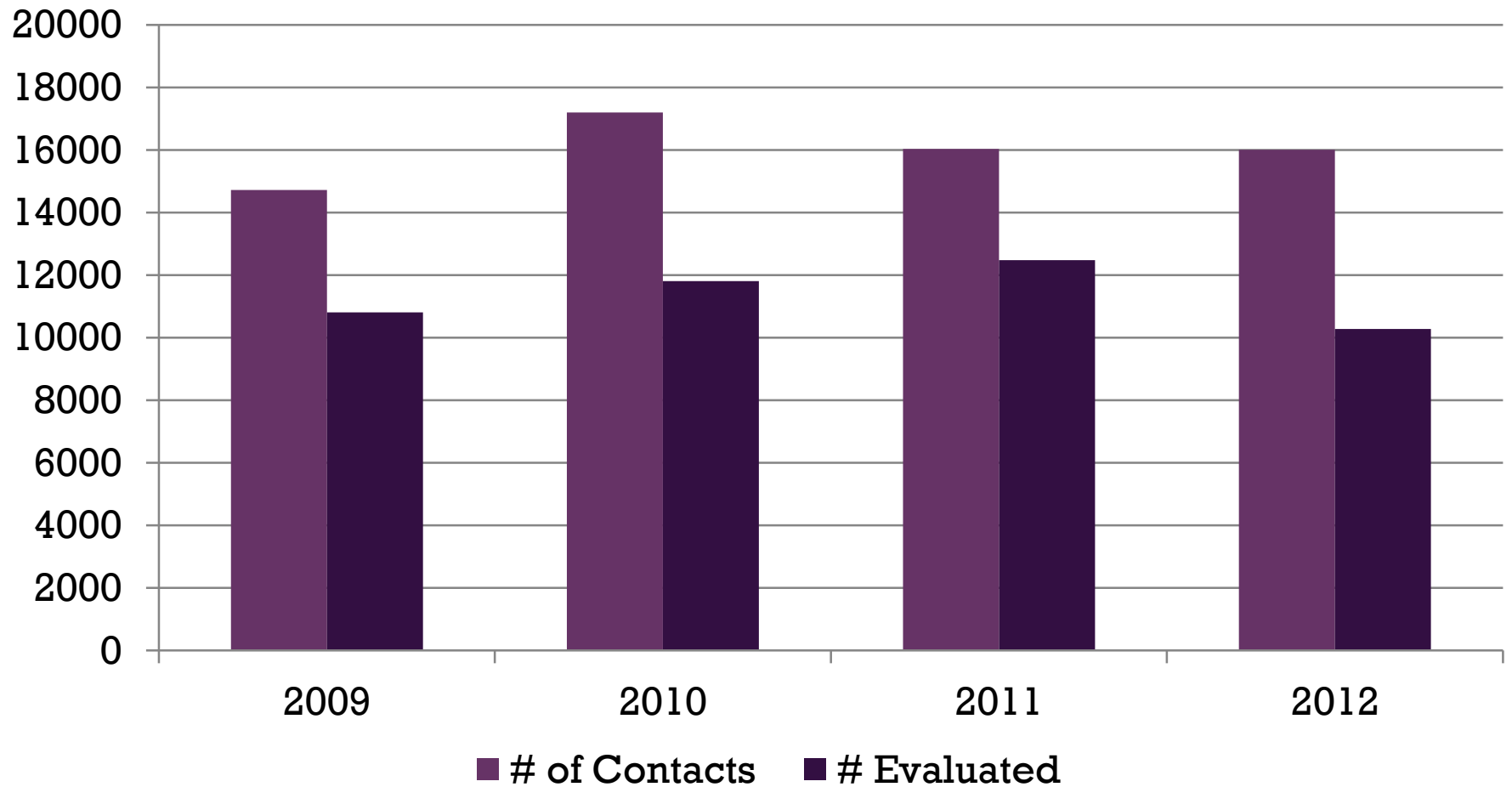
# Number of Drug Resistant TB Cases

Texas 2004-2013

Provisional



# TB Contact Data







# Reporting Cases

# + Case Data Collection and Reporting

Patient information collected on various data collection tools

RVCT Form (official reporting form) completed from data collection tools

RVCT form sent to Central Office

RVCT Form reviewed, information verified and entered into TB-PAM

Case information transmitted to CDC



# Required RVCT Data Elements



1. Complete name
2. Social security number
  1. 999-99-9999 if they have a ssn but is unknown
  2. 000-00-0000 if undocumented immigrant
3. Sex
4. Date of birth
5. Race and ethnicity
6. Country of origin; If non U.S., date of entry into the U.S.
- ...



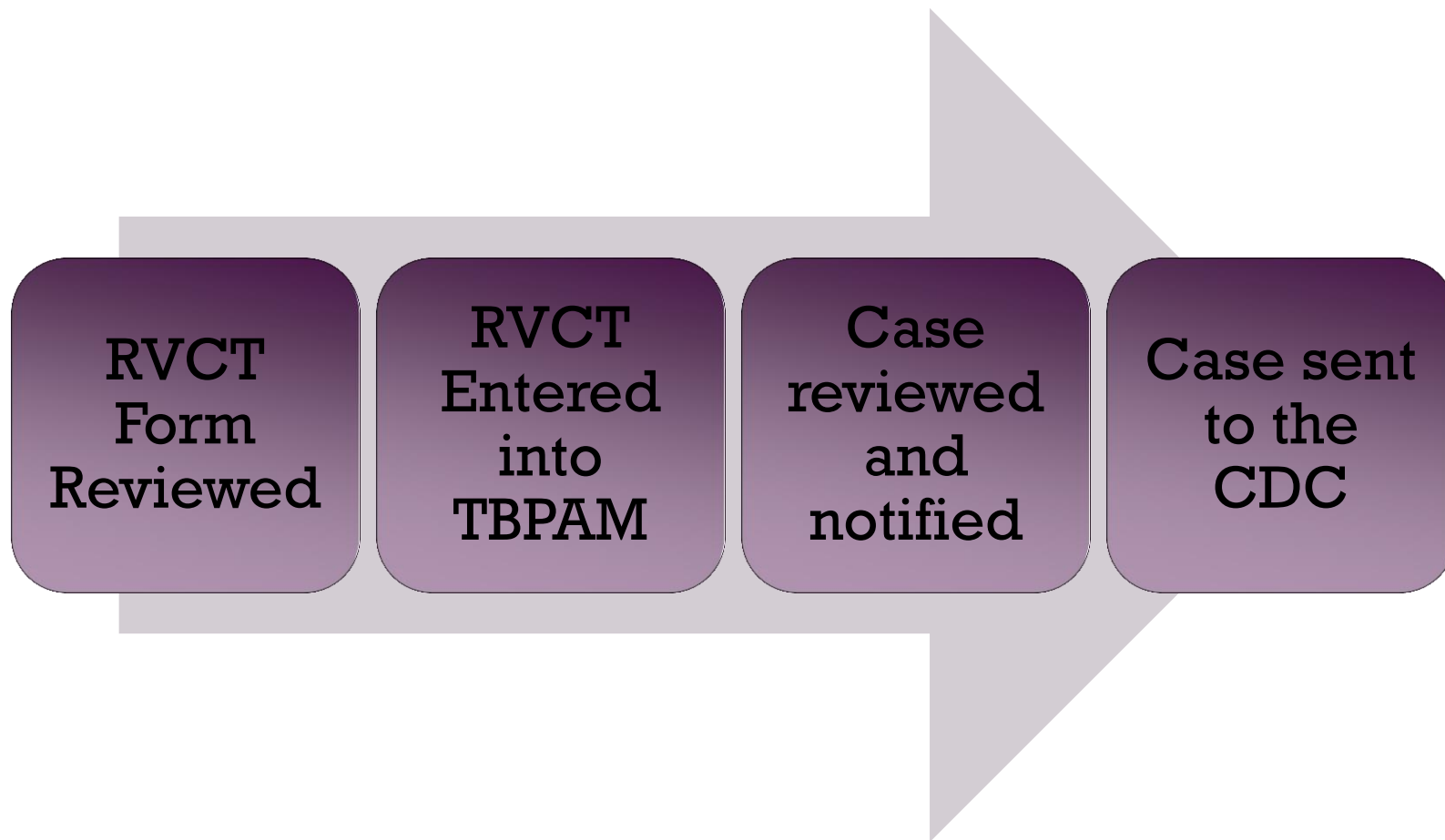
# Required RVCT Data Elements



7. Address, city, county, zip-code with 4 digit code and if in or outside city limits; If diagnosed while in a facility or shelter, the name of the facility or shelter (Include address verification)
8. Criteria for confirmed case of TB must be documented on the case verification report.
9. Copy of Non DSHS lab report if case is a lab confirmed case and susceptibilities
10. Criteria for clinical case
11. Criteria for clinical case by provider diagnosis



# CDC Case Reporting- Central Office Process



# + CDC Case Reporting

- Daily, case information is transmitted to CDC
- Processed by CDC weekly in NTSS (CDC system)
- Progress toward CDC objectives displayed on NTIP

The screenshot displays the CDC National Tuberculosis Indicators Project (NTIP) website. The header includes the CDC logo, the text "Centers for Disease Control and Prevention" and "Your Online Source for Credible Health Information", a "CDC Search:" field, and a "go" button. Below the header is a navigation bar with links: Home | Reports | Line List | ARPEs | Help/Resources | Contact Us | Logout. The main content area is titled "National Tuberculosis Indicators Project Version 3.2.1" and "Data Updated: 08/03/2014". It features a "Texas Indicator Summary 2009 to 2013" section with a table of data. To the right, there is a "Report List" sidebar with options to View, Edit, or Remove reports, and an "Add a report" button.

**Texas Indicator Summary 2009 to 2013**

National TB Program Objectives	2009	2010	2011	2012	2013	National Targets 2015
Completion of Treatment (%)	89.4	85.2	87.8	89.9	69.4	93.0
TB Case Rates (cases/100,000)						
• U.S.-born Persons	3.4	3.0	2.9	2.6	2.5	0.7



# + Reporting Contact Investigations



# Contact Data Collection and Reporting



Contact investigation information collected on contact investigation worksheet



TB-340 completed and sent to Central Office



Contact information entered into TB Contacts Database



Annually, aggregate contact data sent to CDC





# Minimum Contact Information



- Source Case
- Contact Name and DOB
- Was Contact Evaluated
- ATS Class
- If LTBI:
  - Was treatment started?
  - Was treatment completed?
  - If treatment was not completed, reason not completed

## Aggregate Reports For Tuberculosis Program Evaluation

Follow-up and Treatment for Contacts to Tuberculosis Cases

**Program Area:** Texas [Excludes Houston]

**Cohort Year:** 2012

**Date Report Updated:** 09/10/2013 (Format: MM/DD/YYYY)

### Part I. Cases and Contacts

	Types of Cases for Investigation:		
	Sputum Smear +	Sputum Smear - Cult. +	Others
Cases reported in RVCT	401	192	
Cases for Investigation	397 (a1)	186 (a2)	
Cases with No Contacts	45 (b1)	30 (b2)	
Number of Contacts	9547 (c1)	3765 (c2)	2691 (c)
Evaluated	6446 (d1)	2182 (d2)	1648 (d)
TB Disease	41 (e1)	6 (e2)	5 (e)
Latent TB Infection	1907 (f1)	549 (f2)	454 (f)
Started Treatment	1010 (g1)	192 (g2)	259 (g)
Completed Treatment	277 (h1)	74 (h2)	107 (h)
<b>Reasons Treatment Not Completed:</b>			
Death	0	0	0
Contact Moved(follow-up unknown)	14	0	4
Active TB Developed	1	1	0
Adverse Effect of Medicine	18	0	4
Contact Chose to Stop	86	15	29
Contact is Lost to Follow-up	84	12	14
Provider Decision	21	3	6

### Part II. Evaluation Indices

No-Contacts Rate	11.3 (b1/a1),%	16.1 (b2/a2),%	
Contacts Per Case	24.0 (c1/a1)	20.2 (c2/a2)	
Evaluation Rate	67.5 (d1/c1),%	57.9 (d2/c2),%	61.2 (d/c),%
Disease Rate	0.6 (e1/d1),%	0.3 (e2/d2),%	0.3 (e/d),%
Latent Infection Rate	29.6 (f1/d1),%	25.2 (f2/d2),%	27.5 (f/d),%
Treatment Rate	52.9 (g1/f1),%	34.9 (g2/f2),%	57.0 (g/f),%
Completion Rate	27.4 (h1/g1),%	38.5 (h2/g2),%	41.3 (h/g),%



# How Reported Information is used



- Identify changes in TB infection in Texas
- Provide information to media, research groups, legislative inquiries, DSHS executives
- Guide program decisions
- Determine Funding

# + Questions

